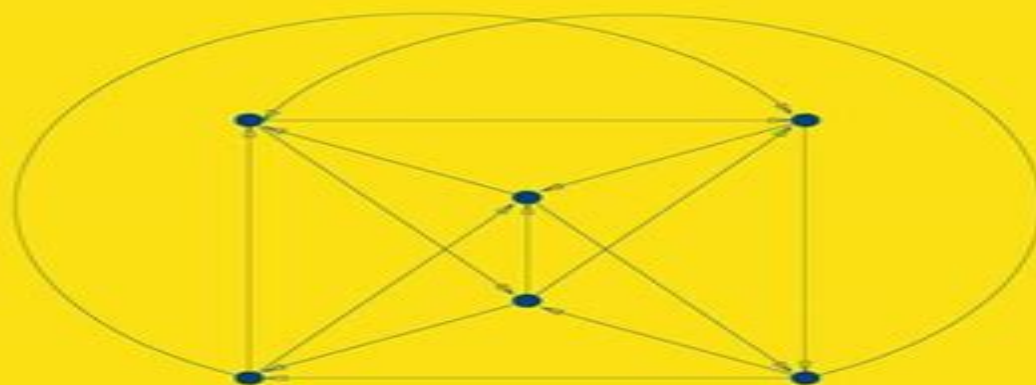


JØRGEN BANG-JENSEN • GREGORY GUTIN

Digraphs: Theory, Algorithms and Applications

Second Edition



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Zhiqiang Li



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Digraphs Jørgen Bang-Jensen, Gregory Z. Gutin, 2013-06-29 Graph theory is a very popular area of discrete mathematics with not only numerous theoretical developments but also countless applications to practical problems. As a research area, graph theory is still relatively young but it is maturing rapidly with many deep results having been discovered over the last couple of decades. The theory of graphs can be roughly partitioned into two branches: the areas of undirected graphs and directed graphs (digraphs). Even though both areas have numerous important applications for various reasons, undirected graphs have been studied much more extensively than directed graphs. One of the reasons is that undirected graphs form, in a sense, a special class of directed graphs (symmetric digraphs) and hence problems that can be formulated for both directed and undirected graphs are often easier for the latter. Another reason is that, unlike for the case of undirected graphs for which there are several important books covering both classical and recent results, no previous book covers more than a small fraction of the results obtained on digraphs within the last 25 years. Typically, digraphs are considered only in one chapter or by a few elementary results scattered throughout the book. Despite all this, the theory of directed graphs has developed enormously within the last three decades. There is an extensive literature on digraphs: more than 3000 papers. Many of these papers contain not only interesting theoretical results but also important algorithms as well as applications.

Digraphs Jørgen Bang-Jensen, Gregory Z. Gutin, 2008-12-17 Substantially revised, reorganised and updated, the second edition now comprises eighteen chapters carefully arranged in a straightforward and logical manner with many new results and open problems. As well as covering the theoretical aspects of the subject with detailed proofs of many important results, the authors present a number of algorithms and whole chapters are devoted to topics such as branchings, feedback arc and vertex sets, connectivity augmentations, sparse subdigraphs with prescribed connectivity, and also packing, covering and decompositions of digraphs. Throughout the book, there is a strong focus on applications which include quantum mechanics, bioinformatics, embedded computing, and the travelling salesman problem. Detailed indices and topic-oriented chapters ease navigation, and more than 650 exercises, 170 figures, and 150 open problems are included to help immerse the reader in all aspects of the subject.

Graph Theory for Operations Research and Management: Applications in Industrial Engineering Farahani, Reza Zanjirani, Miandoabchi, Elnaz, 2012-12-31 While typically many approaches have been mainly mathematics-focused, graph theory has become a tool used by scientists, researchers, and engineers in using modeling techniques to solve real-world problems. *Graph Theory for Operations Research and Management: Applications in Industrial Engineering* presents traditional and contemporary applications of graph theory in the areas of industrial engineering, management science, and applied operations research. This comprehensive collection of research introduces the useful basic concepts of graph theory in real-world applications.

Hypergraph Theory Alain Bretto, 2013-04-17 This book provides an introduction to hypergraphs, its aim being to overcome the lack of recent manuscripts on this theory. In the literature, hypergraphs have many other names such

as set systems and families of sets This work presents the theory of hypergraphs in its most original aspects while also introducing and assessing the latest concepts on hypergraphs The variety of topics their originality and novelty are intended to help readers better understand the hypergraphs in all their diversity in order to perceive their value and power as mathematical tools This book will be a great asset to upper level undergraduate and graduate students in computer science and mathematics It has been the subject of an annual Master s course for many years making it also ideally suited to Master s students in computer science mathematics bioinformatics engineering chemistry and many other fields It will also benefit scientists engineers and anyone else who wants to understand hypergraphs theory

Ergodic Theory of Expanding

Thurston Maps Zhiqiang Li, 2017-04-06 Thurston maps are topological generalizations of postcritically finite rational maps This book provides a comprehensive study of ergodic theory of expanding Thurston maps focusing on the measure of maximal entropy as well as a more general class of invariant measures called equilibrium states and certain weak expansion properties of such maps In particular we present equidistribution results for iterated preimages and periodic points with respect to the unique measure of maximal entropy by investigating the number and locations of fixed points We then use the thermodynamical formalism to establish the existence uniqueness and various other properties of the equilibrium state for a Holder continuous potential on the sphere equipped with a visual metric After studying some weak expansion properties of such maps we obtain certain large deviation principles for iterated preimages and periodic points under an additional assumption on the critical orbits of the maps This enables us to obtain general equidistribution results for such points with respect to the equilibrium states under the same assumption

Steinberg Groups for Jordan Pairs Ottmar Loos, Erhard Neher, 2020-01-10 The present monograph develops a unified theory of Steinberg groups independent of matrix representations based on the theory of Jordan pairs and the theory of 3 graded locally finite root systems The development of this approach occurs over six chapters progressing from groups with commutator relations and their Steinberg groups then on to Jordan pairs 3 graded locally finite root systems and groups associated with Jordan pairs graded by root systems before exploring the volume s main focus the definition of the Steinberg group of a root graded Jordan pair by a small set of relations and its central closedness Several original concepts such as the notions of Jordan graphs and Weyl elements provide readers with the necessary tools from combinatorics and group theory Steinberg Groups for Jordan Pairs is ideal for PhD students and researchers in the fields of elementary groups Steinberg groups Jordan algebras and Jordan pairs By adopting a unified approach anybody interested in this area who seeks an alternative to case by case arguments and explicit matrix calculations will find this book essential

Bulletin of the Institute of Combinatorics and Its Applications, 2001

Relational Methods in Computer Science Wendy MacCaull, Michael Winter, Ivo Düntsch, 2006-04-18 This volume is the post conference proceedings of the 8th International Seminar on Relational Methods in Computer Science RelMiCS 8 held in conjunction with the 3rd International Workshop on Applications of Kleene Algebra and a COST Action 274 TARSKI

Workshop This combined meeting took place in St Catharines Ontario Canada from February 22 to February 26 2005 *The Discrete Math Workbook* Sergei Kurgalin, Sergei Borzunov, 2018-07-31 This practically oriented textbook presents an accessible introduction to discrete mathematics through a substantial collection of classroom tested exercises Each chapter opens with concise coverage of the theory underlying the topic reviewing the basic concepts and establishing the terminology as well as providing the key formulae and instructions on their use This is then followed by a detailed account of the most common problems in the area before the reader is invited to practice solving such problems for themselves through a varied series of questions and assignments Topics and features provides an extensive set of exercises and examples of varying levels of complexity suitable for both laboratory practical training and self study offers detailed solutions to many problems applying commonly used methods and computational schemes introduces the fundamentals of mathematical logic the theory of algorithms Boolean algebra graph theory sets relations functions and combinatorics presents more advanced material on the design and analysis of algorithms including asymptotic analysis and parallel algorithms includes reference lists of trigonometric and finite summation formulae in an appendix together with basic rules for differential and integral calculus This hands on study guide is designed to address the core needs of undergraduate students training in computer science informatics and electronic engineering emphasizing the skills required to develop and implement an algorithm in a specific programming language **Digraphs** Jorgen Bang-Jensen, Gregory Gutin, 2002

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